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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/736,833 12/17/2003		Eun-Soo Lee	25611-000074/US	4825	
30593	7590 04/17/2006		EXAM	EXAMINER	
HARNESS	, DICKEY & PIERCE,	HOLLINGTON, JERMELE M			
P.O. BOX 8910 RESTON, VA 20195			ART UNIT	PAPER NUMBER	
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		DATE MAILED: 04/17/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Comments	10/736,833	LEE, EUN-SOO				
Office Action Summary	Examiner	Art Unit				
	Jermele M. Hollington	2829				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 17 De	ecember 2003.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2 and 12-14 is/are rejected. 7) Claim(s) 3-11 and 15-16 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/03. 	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-2 and 12-14 are rejected under 35 U.S.C. 102(a) as being anticipated by Nemoto et al (20020036161).

Regarding claim 1, Nemoto et al disclose [see Figs. 4-6 and 11-13] a tray transfer apparatus comprising: a transfer plate (test tray TST), the transfer plate (TST) including a plurality of tray holders (carrier compartment 14) arranged and configured for the selective support and release of a tray (IC carrier 16 in Fig. 6), the tray (16) including an array of pockets (IC pocket 19 in Fig. 6) for receiving semiconductor devices (IC), an array of detecting means (IC detecting sensors 500) arranged and configured to detect the presence of more than one semiconductor device (IC) in one of the pockets (19) of a supported tray (16); wiring means connecting the detecting means (500) to an input/output terminal (loader section 300 in Fig. 4); and driving means (transfer means 304 of Fig. 5) arranged and configured for controlled vertical and horizontal movement of the transfer plate (TST).

Regarding claim 2, Nemoto et al disclose the detecting means (500) are detecting switches.

Regarding claim 12, Nemoto et al disclose [see Figs 4-8] an automatic test handler comprising: a plurality of tray stockers (IC storage rack 201-202) arranged and configured for

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receiving and positioning trays (IC carrier 16), the trays (16) including an array of pockets (IC pockets 19) with each pocket being sized and configured to receive and hold a semiconductor device (IC); a tray transfer unit (loading section 300 and unloading section 400) including a transfer plate (test tray TST) arranged and configured to transfer and position a supported tray (16), an array of detecting switches (IC detecting sensor 500 in Figs. 11-12) arranged and configured to indicate the presence of more than one semiconductor device (IC) in a pocket (19) of the supported tray (16), a detecting substrate and a driving means; a tester (test chamber 102) for performing electrical tests on the semiconductor devices (IC); a first chamber (temperature chamber 101) for establishing a first temperature condition in the semiconductor devices (IC) under which the semiconductor devices (IC) will be tested, a second chamber (stress removing chamber 103) for restoring the tested semiconductor device (IC) to the normal temperature; a pick and place device (transfer means 304 or 404) arranged and configured for removing the semiconductor devices (IC) from the pockets (19) and for placing the semiconductor devices (IC) into the pockets (19); and a controller (host computer 2 in Fig. 1) for controlling the stockers (201-202), the tester (102), the tray transfer unit (300 and 400), the pick and place device (304 and 404) and the first and second chambers (101 and 103).

Regarding claim 13, Nemoto et al disclose the controller (2) is incorporated within the tray transfer unit (300 and 400).

Regarding claim 14, Nemoto et al disclose the controller (2) generates a test stop signal corresponding to the activation status of the detecting switches (500).

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 for further details.

- 4. Claims 3-11 and 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: regarding claim 3, the reason for the allowance of the claim is due to the fact a detecting switches are mechanical contact type push-button switches.

Regarding clam 4, the reason for the allowance of the claim is due to the fact the detecting switches extend through an installation holes and below a plane defined by the bottom surface of a transfer plate. Since claims 5-6 depend from claim 4, they also have allowable subject matter.

Regarding clam 7, the reason for the allowance of the claim is due to the fact the transfer plate includes a rotatable member arranged at a periphery of the transfer plate and extending above and below the transfer plate; a catch finger connected to a lower extension of the rotatable member.

Regarding claim 8, the reason for the allowance of the claim is due to the fact a control substrate for generating a control signal, the control signal corresponding to an activation status of the detecting switches. Since claims 9-11 depend from claim 8, they also have allowable subject matter.

Regarding claim 15, the reason for the allowance of the claim is due to the fact an alarm means for generating an alarm signal corresponding to the activation status of the detecting switches.

Regarding claim 16, the reason for the allowance of the claim is due to the fact a control substrate arranged and configured for providing power to the detecting substrate and for generating flash signals according to the activation status of the detecting switches.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jermele M. Hollington whose telephone number is (571) 272-1960. The examiner can normally be reached on M-F (9:00-4:30 EST) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (517) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jermele M. Hollington Primary Examiner Art Unit 2829

JMH April 12, 2006